

EXECUTING SUPERSTRUCTURE WORKS

UNIT CODE: CON/CU/BUT/CR/03/5

UNIT DURATION: 120Hours

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Execute superstructure works.

Unit Description

This Unit describes the competencies required to execute superstructure works. It involves setting out and constructing superstructure walls and columns, setting out and casting superstructure beams and suspended slabs, and constructing stair structure.

Summary of Learning Outcomes

1. To set out walls and columns
2. To construct superstructure wall and columns
3. To set out superstructure beams and suspended slabs
4. To construct stair structure
5. To cast suspended slab and beams

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Set out walls and columns	<ul style="list-style-type: none"> • Methods of setting out • Tools for setting out • Kickers 	<ul style="list-style-type: none"> • Written assessment • Practical • Projects • Oral assessment • Portfolio of Evidence
2. Construct superstructure wall and columns	<ul style="list-style-type: none"> • Construction of columns and walls • DPC • Wall openings • Props • Concrete materials • Placing and compaction of concrete • Curing of concrete 	<ul style="list-style-type: none"> • Written assessment • Practical • Projects • Oral assessment • Portfolio of Evidence
3. Set out superstructure beams and suspended slabs	<ul style="list-style-type: none"> • Levels • Formwork construction 	<ul style="list-style-type: none"> • Written assessment • Practical • Projects • Oral assessment • Portfolio of Evidence

4. Construct stair structure	<ul style="list-style-type: none"> • Types of stairs • Construction of stairs • Curing of stair 	<ul style="list-style-type: none"> • Written assessment • Practical • Projects • Oral assessment • Portfolio of Evidence
5. Cast suspended slab and beams	<ul style="list-style-type: none"> • Reinforcement bars • Concrete material <ul style="list-style-type: none"> - Cement - Aggregates • Cast beams and slabs 	<ul style="list-style-type: none"> • Written assessment • Practical • Projects • Oral assessment • Portfolio of Evidence

Suggested Methods of Instruction

- Discussion
- Direct Instruction
- Project
- Practical
- Question and answer
- Visits to construction site
- Simulations
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Recommended Resources for 25 Trainees

- 10 Desktop computers/laptops
- 25 Builder's square
- 25 Tape measures
- Hand Tools and implements
- Marine boards
- 2 Projector
- 5 Whiteboards
- 10 roll Flip Chart
- Assorted colour of whiteboard markers
- Building stones
- Timber
- Reinforcement bars
- Tools and equipment
 - 10 Spade
 - 5 Wheelbarrows
 - 25 sets of Painting brushes
 - 25 Trowels
 - 25 Spirit levels
 - 25 assorted Screw drivers
 - 25 Hammers

- 25 Plumb bobs
- 25 Wooden float
- 25 Steel float
- 25 Head pans

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